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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/505,323	03/10/2005	Jacobus Antonius Loontjens	4662-326	3790

23117 7590 02/07/2007
NIXON & VANDERHYE, PC
901 NORTH GLEBE ROAD, 11TH FLOOR
ARLINGTON, VA 22203

EXAMINER

TOSCANO, ALICIA

ART UNIT	PAPER NUMBER
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1712

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	02/07/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/505,323

Applicant(s)

LOONTJENS ET AL.

Examiner

Alicia M. Toscano

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 March 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-3 and 12-15 is/are allowed.
- 6) ☒ Claim(s) 4,6,7 and 10 is/are rejected.
- 7) ☒ Claim(s) 5,8,9,11 and 16-18 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 8/23/04.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 4, 6, 7 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Frish (US 4742128).

Frish discloses polymer products. Said polymer products include the polymerization of a lactam to form a polyamide (Column 9 Lines 10-34) using a lactam-blocked-isocyanate (Column 9 Line 63). Said polyamide will comprise lactam-blocked-isocyanate endgroups. Said polyamide comprises amide groups within the polymer backbone. Said amide groups will inherently associate, or link, with additives in the polymer blend. Said additives may be stabilizers and pigments (Column 25 Line 38). Said composition meets the limitations of Claims 4, 6, 7 and 10.

2. Claims 4, 6, 7 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Loontjens (EP 1132411).

Loontjens discloses thermosetting compositions. Said thermosetting resin comprises a functional resin with more than 2 –OH or –NH₂ functional groups and a carbonylbiscaprolactam (abstract). The reaction between the two forms a product with

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lactam-blocked-isocyanate endgroups. It is the Examiners position that the remaining OH or NH₂ functional groups will inherently associate, or link, with additives in the resin. The additives are disclosed in [0024] to be pigments, stabilizers and the like.

Allowable Subject Matter

3. Claims 1-3 and 12-15 are allowed.
4. Claims 5, 8, 9, 11 and 16-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Reasons: A process of (1) preparing a first compound by reaction of a primary amino with a carbonyl bislactam, the primary amino moiety comprising a second reactive moiety which is (2) further linked to an additive followed by (3) reacting said first compound containing a carbonylbislactam with a polymer such that the polymer and the blocked isocyanate react is not suggested nor disclosed in the prior art of record.

ISR cited "A" references have been considered.

EP 0288253 discloses the addition of carbonylbiscaprolactam as an additive in a carboxy functional resin as a crosslinker. Said resin comprises stabilizers and would equivalently encompass Claims 4, 6, 7 and 10 as set forth above.

WO 01/53383 discloses chain extension of polymer chains using bis-lactams however the use of steps (1), (2) and (3) above are not suggested nor disclosed.

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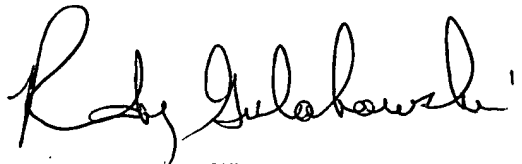
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia M. Toscano whose telephone number is 571-272-2451. The examiner can normally be reached on Monday to Friday 8:30 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on 571-272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AMT


RANDY GULAKOWSKI
SUPERVISORY PATENT EXAMINER
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